

## **TASKS FOR THE RFP:**

**Task 1:** Design an aerometric network to satisfy the objectives listed above. The design should utilize available information to determine the types of monitors that should be employed to provide an effective surface and aloft ambient air quality and meteorological measurement network. The design should consider and describe options for securing aloft ambient air quality and meteorological measurements, including the potential use of satellite-derived measurements. The contractor is also encouraged to explore the possibility of improving routine measurement techniques. For example, one could consider further speciation of volatile organic compounds to include a larger number of chemicals than required by the Photochemical Assessment Monitoring protocol. This could improve air toxics analysis and emission inventory improvement efforts. Another improvement could be continuous measurements of pollutants such as ammonia and nitric acid. The design should include the recommended general geographic distribution of monitoring sites and selection criteria for sites that would be necessary to complete the network in accordance with the objectives. The rationale for including or excluding specified types of measurements at monitoring locations should be developed from the objectives and from consideration of the sensitivity of the instruments and methods relative to potential ambient concentrations. The rationale should be reported in the design document, including which objective(s) the measurements are designed to address. The relative priority for each measurement should be included to guide subsequent efforts to optimize and fund the enhanced network.

The design document should identify the purpose for including each type of monitor and the number of monitors of each type that will be required to complete the network. If a variety of instruments or methods are available for obtaining one or more of the specified measurements but a specific monitor or method is recommended, the basis for selection in comparison to other available technologies should be provided.

The priority recommendations will be considered, revised, and approved by the Technical and Policy Committees for use as a guide for subsequent efforts to optimize and fund the enhanced network. The intent of this task is for the contractor to provide recommendations on an enhanced aerometric network based solely on technical issues and the technical merits of any proposed enhancements. The recommendation of proprietary monitoring equipment, or equipment available from a single source, is discouraged since it may result in the potential for conflict of interest.